



HYGIENETECH

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June 11, 2012

California State Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21205001.3

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Survey
May 2012 QPCR Air Sampling

Dear Mr. Gau:

On May 25, 2012, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited fungal growth exposure assessment survey within the California State Board of Equalization (BOE) building located at 450 N Street in Sacramento, California. Air samples were analyzed using quantitative polymerase chain reaction (QPCR) analysis. During the survey, three air samples each were collected from Floors 1, 3, 5, 7, 9, 11, 15, 17, 19, 21, and 23.

Air samples for QPCR analysis were collected on filter cassettes containing pre-loaded 37-millimeter diameter, polycarbonate filters having a pore size of four micrometers using high volume air sampling pumps. Each pump flow rate was calibrated and verified using a DryCal® DC-Lite Primary Flow Meter. All such samples were subsequently analyzed by trained and experienced microbiologists at EMLab P&K, a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing Program. Two samples per floor collected for QPCR analysis were analyzed for quantification of *Cladosporium* species via custom panel for *Cladosporium*, which included *C. cladosporioides* (Type 1), *C. cladosporioides* (Type 2), *C. herbarum*, and *C. sphaerospermum*. One sample per floor along with the outdoor samples collected for QPCR analysis were analyzed for quantification of *Cladosporium* species via custom panel for *Cladosporium*, which included *Cladosporium cladosporioides* (Type 2), *Cladosporium herbarum*, *Cladosporium sphaerospermum*, as well as an additional 23 important indoor molds including *Cladosporium cladosporioides* (Type 1). Applied methodology has been developed by and is licensed through the EPA.

On the survey date, the airborne spore equivalent count data as presented in Table 21205001-7A showed fungal spore equivalent types outdoors such as *Acremonium strictum*, *Alternaria alternata*, *Aspergillus flavus* (*A. flavus* and *A. oryzae*), *Aspergillus fumigatus* (*A. fumigatus* and *Neosartorya fischeri*), *Aspergillus niger* (*A. niger*, *A. foetidus* and *A. phoenicis*), *Aspergillus ochraceus* (*A. ochraceus* and *A. ostianus*), *Aspergillus ustus*, *Aspergillus versicolor*, *Chaetomium globosum*, *Cladosporium cladosporioides* (Type 1), *Cladosporium cladosporioides* (Type 2), *Cladosporium herbarum*, *Cladosporium sphaerospermum*, *Eurotium* (*Asp.*) *amstelodami* (*E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*), *Paecilomyces variotii*, *Penicillium brevicompactum*, *Penicillium*



purpurogenum, and/or *Stachybotrys chartarum*. As presented in Tables 21205001-7A and 7B, in the indoor areas tested on the survey date, the data showed low airborne concentrations of fungal spore equivalent that included one or more of the following: *Alternaria alternata*, *Aspergillus fumigatus* (*A. fumigatus* and *Neosartorya fischeri*), *Aspergillus niger* (*A. niger*, *A. foetidus* and *A. phoenicis*), *Aspergillus ochraceus* (*A. ochraceus* and *A. ostianus*), *Cladosporium cladosporioides* (Type 1), *Cladosporium cladosporioides* (Type 2), *Cladosporium herbarum*, *Cladosporium sphaerospermum*, *Eurotium* (Asp.) *amstelodami* (*E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*), *Paecilomyces variotii*, *Penicillium brevicompactum*, and/or *Trichoderma viride* (*T. viride*, *T. atroviride* and *T. koningii*).

Please note that *Cladosporium sphaerospermum*, the dominant species of *Cladosporium* genus identified in the heating, ventilating, and air conditioning (HVAC) duct interior was either not detected above the laboratory analytical limit or was found at very low levels in both the indoor and outdoor samples collected. The distribution of fungal spore equivalent types detected in the surveyed areas was generally consistent with those found outdoors, and the overall data within the tested areas were well below the overall data recorded outdoors. Collectively, these data were considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time the survey was performed and at the precise sample locations indicated, the latter of which were selected based on the available background information provided. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, changes in fungal growth within HVAC systems, or other factors.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

APPENDIX A



**TABLE 21205001-7A
QUANTITATIVE PCR RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
MAY 25, 2012**

Page 1

Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P01OUT	21205001-7 P02	21205001-7 P04	21205001-7 P09
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 10 feet north of the building; approximately five feet above ground/Normal outdoor activities	1 st Floor; Conference Room 105; approximately five feet above floor/Sampling activities only	5 th Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	17 th Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only
START/STOP	05:20:00/08:20:00	05:26:00/08:26:00	05:41:00/08:41:00	06:08:00/09:08:00
SAMPLE TIME	180 minutes	180 minutes	180 minutes	180 minutes
Acremonium strictum	<1	<1	<1	<1
Alternaria alternata	1	<1	<1	<1
Aspergillus flavus ^{a)}	<1	<1	<1	<1
Aspergillus fumigatus ^{b)}	43	2	<1	2
Aspergillus niger ^{c)}	2	<1	<1	<1
Aspergillus ochraceus ^{d)}	<1	<1	<1	<1
Aspergillus sydowii	<8	<7	<11	<9
Aspergillus ustus	<1	<1	<1	<1
Aspergillus versicolor	<1	<1	<2	<1
Chaetomium globosum	<1	<1	<1	<1
Cladosporium cladosporioides (T-1)	680	2	10	38
Cladosporium cladosporioides (T-2)	9	1	1	<1
Cladosporium herbarum	31	2	3	2
Cladosporium sphaerospermum	<1	1	1	1
Eurotium (Asp.) amstelodami ^{e)}	53	<1	<1	<1
Memnoniella echinata	<1	<1	<1	<1
Paecilomyces variotii	1	<1	<1	<1
Penicillium aurantiogriseum ^{f)}	<2	<2	<3	<2
Penicillium brevicompactum	94	<2	<3	<2
Penicillium chrysogenum (T-2) ^{g)}	<1	<1	<1	<1
Penicillium purpurogenum	<2	<1	<2	<2
Penicillium variable	<5	<4	<7	<5
Scopulariopsis brevicaulis ^{h)}	<1	<1	<1	<1
Stachybotrys chartarum	<1	<1	<1	<1
Trichoderma viride ⁱ⁾	<1	<1	<1	<1
Ulocladium botrytis	<1	<1	<1	<1

a) Includes A. flavus and A. oryzae

c) Includes A. niger, A. foetidus and A. phoenicis

e) Includes E. amstelodami, E. chevalieri, E. herbariorum, E. rubrum and E. repens

g) Includes dominant subgroups of species

i) Includes T. viride, T. atroviride and T. koningii

b) Includes A. fumigatus and Neosartorya fischeri

d) Includes A. ochraceus and A. ostianus

f) Includes P. aurantiogriseum, P. freii, P. polonicum, P. tricolor and P. viridicatum

h) Includes S. brevicaulis and S. fusca

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**TABLE 21205001-7A
QUANTITATIVE PCR RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
MAY 25, 2012**

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Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P11	21205001-7 P13OUT	21205001-7 P14	21205001-7 P16
SAMPLING LOCATION/ACTIVITIES	21 st Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	Outdoors; 23 rd Floor Western Deck; western portion; about center; approximately five feet above floor/Normal outdoor activities	23 rd Floor; Room 2334C; about center; approximately five feet above floor/Sampling activities only	19 th Floor; Column K-19 area; Cubicle 65; about center; approximately five feet above floor/Normal office activities
START/STOP	06:18:00/09:18:00	09:38:00/12:38:00	09:42:00/12:43:00	09:50:00/12:54:00
SAMPLE TIME	180 minutes	180 minutes	181 minutes	184 minutes
Acremonium strictum	<1	1	<1	<1
Alternaria alternata	<1	1	<1	1
Aspergillus flavus ^{a)}	<1	1	<1	<1
Aspergillus fumigatus ^{b)}	1	7	<1	<1
Aspergillus niger ^{c)}	1	1	<1	<1
Aspergillus ochraceus ^{d)}	<1	1	<1	<1
Aspergillus sydowii	<9	<9	<8	<9
Aspergillus ustus	<1	<1	<1	<1
Aspergillus versicolor	<1	3	<1	<1
Chaetomium globosum	<1	<1	<1	<1
Cladosporium cladosporioides (T-1)	25	620	9	24
Cladosporium cladosporioides (T-2)	1	3	<1	<1
Cladosporium herbarum	1	22	1	1
Cladosporium sphaerospermum	<1	1	<1	<1
Eurotium (Asp.) amstelodami ^{e)}	<1	55	<1	<1
Memnoniella echinata	<1	<1	<1	<1
Paecilomyces variotii	<1	<1	<1	<1
Penicillium aurantiogriseum ^{f)}	<2	<2	<2	<3
Penicillium brevicompactum	<2	25	2	<2
Penicillium chrysogenum (T-2) ^{g)}	<1	<1	<1	<1
Penicillium purpurogenum	<2	<2	<1	<2
Penicillium variable	<5	<5	<4	<6
Scopulariopsis brevicaulis ^{h)}	<1	<1	<1	<1
Stachybotrys chartarum	<1	1	<1	<1
Trichoderma viride ⁱ⁾	<1	<1	<1	<1
Ulocladium botrytis	<1	<1	<1	<1

a) Includes A. flavus and A. oryzae

c) Includes A. niger, A. foetidus and A. phoenicis

e) Includes E. amstelodami, E. chevalieri, E. herbariorum, E. rubrum and E. repens

g) Includes dominant subgroups of species

i) Includes T. viride, T. atroviride and T. koningii

b) Includes A. fumigatus and Neosartorya fischeri

d) Includes A. ochraceus and A. ostianus

f) Includes P. aurantiogriseum, P. freii, P. polonicum, P. tricolor and P. viridicatum

h) Includes S. brevicaulis and S. fusca

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**TABLE 21205001-7A
QUANTITATIVE PCR RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
MAY 25, 2012**

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Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P18	21205001-7 P23	21205001-7 P25OUT	21205001-7 P29
SAMPLING LOCATION/ACTIVITIES	15 th Floor; Column N-18 area; Cubicle 29; approximately five feet above floor/Normal office activities	3 rd Floor; Column K-22 area; about three feet east of Column K-22; approximately five feet above floor/Normal office activities	Outdoors; garage northern portion; approximately five feet above floor/Normal outdoor activities	7 th Floor; Column L-22 area; about one foot north of Column L-22; approximately five feet above floor/Normal office activities
START/STOP	09:59:00/13:00:00	10:27:00/13:27:00	13:42:00/16:45:00	14:04:00/17:06:00
SAMPLE TIME	181 minutes	180 minutes	183 minutes	182 minutes
Acremonium strictum	<1	<1	1	<1
Alternaria alternata	<1	<1	1	2
Aspergillus flavus ^{a)}	<1	<1	<1	<1
Aspergillus fumigatus ^{b)}	1	2	440	<1
Aspergillus niger ^{c)}	1	<1	2	2
Aspergillus ochraceus ^{d)}	<1	<1	1	<1
Aspergillus sydowii	<7	<7	<7	<7
Aspergillus ustus	<1	<1	1	<1
Aspergillus versicolor	<1	<1	1	<1
Chaetomium globosum	<1	<1	1	<1
Cladosporium cladosporioides (T-1)	26	3	460	19
Cladosporium cladosporioides (T-2)	1	1	1	1
Cladosporium herbarum	3	1	16	1
Cladosporium sphaerospermum	<1	<1	1	<1
Eurotium (Asp.) amstelodami ^{e)}	<1	21	38	<1
Memnoniella echinata	<1	<1	<1	<1
Paecilomyces variotii	<1	<1	<1	<1
Penicillium aurantiogriseum ^{f)}	<2	<2	<2	<2
Penicillium brevicompactum	<2	<2	9	<2
Penicillium chrysogenum (T-2) ^{g)}	<1	<1	<1	<1
Penicillium purpurogenum	<1	<1	3	<1
Penicillium variable	<4	<4	<4	<4
Scopulariopsis brevicaulis ^{h)}	<1	<1	<1	<1
Stachybotrys chartarum	<1	<1	1	<1
Trichoderma viride ⁱ⁾	<1	<1	<1	<1
Ulocladium botrytis	<1	<1	<1	<1

a) Includes A. flavus and A. oryzae

c) Includes A. niger, A. foetidus and A. phoenicis

e) Includes E. amstelodami, E. chevalieri, E. herbariorum, E. rubrum and E. repens

g) Includes dominant subgroups of species

i) Includes T. viride, T. atroviride and T. koningii

b) Includes A. fumigatus and Neosartorya fischeri

d) Includes A. ochraceus and A. ostianus

f) Includes P. aurantiogriseum, P. freii, P. polonicum, P. tricolor and P. viridicatum

h) Includes S. brevicaulis and S. fusca

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**TABLE 21205001-7A
QUANTITATIVE PCR RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
MAY 25, 2012**

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Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P30	21205001-7 P31	21205001-7 P37BLANK	
SAMPLING LOCATION/ACTIVITIES	9 th Floor; Column N-18 area; Cubicle 151; about center; approximately five feet above floor/Normal office activities	11 th Floor; Area between Column K-20 and K-21; Cubicle 36; approximately five feet above floor/Normal office activities	Field Blank	
START/STOP	14:08:00/17:08:00	14:13:00/17:16:00	N/A	
SAMPLE TIME	180 minutes	183 minutes	N/A	
Acremonium strictum	<1	<1	<1	
Alternaria alternata	1	<1	<1	
Aspergillus flavus ^{a)}	<1	<1	<1	
Aspergillus fumigatus ^{b)}	<1	<1	<1	
Aspergillus niger ^{c)}	<1	1	<1	
Aspergillus ochraceus ^{d)}	<1	1	<1	
Aspergillus sydowii	<8	<7	<1	
Aspergillus ustus	<1	<1	<1	
Aspergillus versicolor	<1	<1	<1	
Chaetomium globosum	<1	<1	<1	
Cladosporium cladosporioides (T-1)	24	18	<1	
Cladosporium cladosporioides (T-2)	<1	1	1	
Cladosporium herbarum	1	1	<1	
Cladosporium sphaerospermum	<1	<1	<1	
Eurotium (Asp.) amstelodami ^{e)}	<1	<1	<1	
Memnoniella echinata	<1	<1	<1	
Paecilomyces variotii	<1	<1	<1	
Penicillium aurantiogriseum ^{f)}	<2	<2	<1	
Penicillium brevicompactum	<2	8	<1	
Penicillium chrysogenum (T-2) ^{g)}	<1	<1	<1	
Penicillium purpurogenum	<2	<1	<1	
Penicillium variable	<5	<4	<1	
Scopulariopsis brevicaulis ^{h)}	<1	<1	<1	
Stachybotrys chartarum	<1	<1	<1	
Trichoderma viride ⁱ⁾	6	<1	<1	
Ulocladium botrytis	<1	<1	<1	

a) Includes A. flavus and A. oryzae

c) Includes A. niger, A.foetidus and A.phoenicis

e) Includes E. amstelodami, E.chevalieri, E.herbariorum, E.rubrum and E.repens

g) Includes dominant subgroups of species

i) Includes T.viride, T.atroviride and T.koningii

b) Includes A. fumigatus and Neosartorya fischeri

d) Includes A. ochraceus and A.ostianus

f) Includes P. aurantiogriseum, P.freii, P.polonicum, P.tricolor and P.viridicatum

h) Includes S.brevicaulis and S.fusca

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APPENDIX A



**TABLE 21205001-7B
QUANTITATIVE PCR RESULTS
CLADOSPORIUM CUSTOM PANEL
450 N STREET
SACRAMENTO, CALIFORNIA
MAY 25, 2012**

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Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P03	21205001-7 P05	21205001-7 P06	21205001-7 P07
SAMPLING LOCATION/ACTIVITIES	3 rd Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	7 th Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	9 th Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	11 th Floor; High Rise Elevator Lobby; approximately five feet above floor/Sampling activities only
START/STOP	05:36:00/08:36:00	05:46:00/08:46:00	05:51:00/08:51:00	05:56:00/08:56:00
SAMPLE TIME	180 minutes	180 minutes	180 minutes	180 minutes
Cladosporium cladosporioides (T-1)	31	19	43	110
Cladosporium cladosporioides (T-2)	1	1	1	2
Cladosporium herbarum	3	2	13	2
Cladosporium sphaerospermum	1	<1	<1	<1

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**TABLE 21205001-7B
QUANTITATIVE PCR RESULTS
CLADOSPORIUM CUSTOM PANEL
450 N STREET
SACRAMENTO, CALIFORNIA
MAY 25, 2012**

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Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P08	21205001-7 P10	21205001-7 P12	21205001-7 P15
SAMPLING LOCATION/ACTIVITIES	15 th Floor; Elevator Lobby; about center; approximately five feet above floor/Sampling activities only	19 th Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	23 rd Floor; Elevator Lobby; approximately five feet above floor/Sampling activities only	21 st Floor; Column K-20 area; Room 2107; eastern portion; approximately five feet above floor/Normal office activities
START/STOP	06:00:00/09:00:00	06:13:00/09:13:00	06:23:00/09:23:00	09:45:00/12:45:00
SAMPLE TIME	180 minutes	180 minutes	180 minutes	180 minutes
Cladosporium cladosporioides (T-1)	91	26	33	<1
Cladosporium cladosporioides (T-2)	2	3	1	<1
Cladosporium herbarum	3	<1	2	1
Cladosporium sphaerospermum	1	1	<1	<1

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**TABLE 21205001-7B
QUANTITATIVE PCR RESULTS
CLADOSPORIUM CUSTOM PANEL
450 N STREET
SACRAMENTO, CALIFORNIA
MAY 25, 2012**

Page 3

Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P17	21205001-7 P19	21205001-7 P20	21205001-7 P21
SAMPLING LOCATION/ACTIVITIES	17 th Floor; Quiet Room 1706; about center; approximately five feet above floor/Normal office activities	11 th Floor; Column L-18 area; Cubicle 83; about center; approximately five feet above floor/Normal office activities	9 th Floor; Column N-20 area; Conference Room 902; northwestern portion; approximately five feet above floor/Sampling activities only	7 th Floor; Column K-19 area; Cubicle 23; about center; approximately five feet above floor/Normal office activities
START/STOP	09:54:00/12:57:00	10:04:00/13:04:00	10:09:00/13:09:00	10:13:00/13:13:00
SAMPLE TIME	183 minutes	180 minutes	180 minutes	180 minutes
Cladosporium cladosporioides (T-1)	6	27	29	13
Cladosporium cladosporioides (T-2)	1	2	1	<1
Cladosporium herbarum	<1	2	1	<1
Cladosporium sphaerospermum	<1	<1	<1	<1

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**TABLE 21205001-7B
QUANTITATIVE PCR RESULTS
CLADOSPORIUM CUSTOM PANEL
450 N STREET
SACRAMENTO, CALIFORNIA
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Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P22	21205001-7 P24	21205001-7 P26	21205001-7 P27
SAMPLING LOCATION/ACTIVITIES	5 th Floor; Column N-18 area; about 10 feet northeast of Column N-18; approximately five feet above floor/Normal office activities	1 st Floor; Conference Room 112; eastern portion; about center; approximately five feet above floor/Sampling activities only	1 st Floor; Hallway adjacent to Freight Elevator entry area; approximately five feet above floor/Normal office activities	3 rd Floor; Column M-23 area; about 10 feet southeast of Column M-23; approximately five feet above floor/Normal office activities
START/STOP	10:22:00/13:22:00	10:34:00/13:34:00	13:50:00/14:53:00	13:54:00/14:57:00
SAMPLE TIME	180 minutes	180 minutes	183 minutes	183 minutes
Cladosporium cladosporioides (T-1)	14	4	21	1
Cladosporium cladosporioides (T-2)	1	<1	3	<1
Cladosporium herbarum	1	<1	3	1
Cladosporium sphaerospermum	1	<1	<1	<1

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**TABLE 21205001-7B
QUANTITATIVE PCR RESULTS
CLADOSPORIUM CUSTOM PANEL
450 N STREET
SACRAMENTO, CALIFORNIA
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Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P28	21205001-7 P32	21205001-7 P33	21205001-7 P34
SAMPLING LOCATION/ACTIVITIES	5 th Floor; Conference Room 502; northern portion; about center; approximately five feet above floor/Sampling activities only	15 th Floor; Column L-23 area; Cubicle 68; about center; approximately five feet above floor/Normal office activities	17 th Floor; Column M-22 area; about five feet north of Column M22; approximately five feet above floor/Normal office activities	19 th Floor; Column N-23 area; about 10 feet southeast of Column N-23; approximately five feet above floor/Normal office activities
START/STOP	14:00:00/17:02:00	14:18:00/17:18:00	14:34:00/17:36:00	14:38:00/17:40:00
SAMPLE TIME	182 minutes	180 minutes	182 minutes	182 minutes
Cladosporium cladosporioides (T-1)	14	1	19	18
Cladosporium cladosporioides (T-2)	<1	1	1	<1
Cladosporium herbarum	1	1	<1	1
Cladosporium sphaerospermum	1	<1	1	<1

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**TABLE 21205001-7B
QUANTITATIVE PCR RESULTS
CLADOSPORIUM CUSTOM PANEL
450 N STREET
SACRAMENTO, CALIFORNIA
MAY 25, 2012**

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Results reported in spore equivalent per cubic meter of air (SE/m³)

SAMPLE NUMBER	21205001-7 P35	21205001-7 P36		
SAMPLING LOCATION/ACTIVITIES	21 st Floor; Column K-23 area; Cubicle 58; approximately five feet above floor/Normal office activities	23 rd Floor; Column K-21 area; about 10 feet southwest of Column K-21; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
START/STOP	14:43:00/17:47:00	14:47:00/17:50:00		
SAMPLE TIME	184 minutes	183 minutes		
Cladosporium cladosporioides (T-1)	<1	13		
Cladosporium cladosporioides (T-2)	<1	1		
Cladosporium herbarum	<1	1		
Cladosporium sphaerospermum	1	1		



Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21205001-7
EML ID: 928951

Approved by:

Dates of Analysis:
PCR- Custom Panel: 06-03-2012
PCR-23 important indoor molds: 06-03-2012

Technical Manager
Aaron Agajanian

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.



PCR - Custom Panel

Prepared Exclusively For:

Hygiene Technologies International, Inc.:
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Project Name: 21205001-7

Project ID Number: 928951

June 7, 2012

This report has been prepared at the request of and for the exclusive use of the client named in this report. EMLabP&K will not release results or report to a third party without prior written consent.

Results:

Sample ID	21205001-7 P03		21205001-7 P05		21205001-7 P06	
Air Volume [m ³]	1.431		1.332		1.431	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	44	31	26	19	61	43
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	1	1	1	1
<i>Cladosporium herbarum</i>	4	3	3	2	18	13
<i>Cladosporium sphaerospermum</i>	1	1	ND	<1	ND	<1

Sample ID	21205001-7 P07		21205001-7 P08		21205001-7 P10	
Air Volume [m ³]	1.395		1.431		1.422	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	150	110	130	91	38	26
<i>Cladosporium cladosporioides</i> (Type 2)	2	2	2	2	4	3
<i>Cladosporium herbarum</i>	2	2	4	3	ND	<1
<i>Cladosporium sphaerospermum</i>	ND	<1	1	1	1	1

Sample ID	21205001-7 P12		21205001-7 P15		21205001-7 P17	
Air Volume [m ³]	1.422		1.440		1.446	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	46	33	ND	<1	9	6
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	ND	<1	1	1
<i>Cladosporium herbarum</i>	2	2	1	1	ND	<1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

Sample ID	21205001-7 P19		21205001-7 P20		21205001-7 P21	
Air Volume [m ³]	1.400		1.458		1.404	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	38	27	43	29	18	13
<i>Cladosporium cladosporioides</i> (Type 2)	3	2	1	1	ND	<1
<i>Cladosporium herbarum</i>	2	2	1	1	ND	<1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

Sample ID	21205001-7 P22		21205001-7 P24		21205001-7 P26	
Air Volume [m ³]	1.422		1.521		1.610	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	20	14	7	4	34	21
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	ND	<1	5	3
<i>Cladosporium herbarum</i>	1	1	ND	<1	5	3
<i>Cladosporium sphaerospermum</i>	1	1	ND	<1	ND	<1

Sample ID	21205001-7 P27		21205001-7 P28		21205001-7 P32	
Air Volume [m ³]	1.473		1.406		1.404	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	2	1	20	14	2	1
<i>Cladosporium cladosporioides</i> (Type 2)	ND	<1	ND	<1	1	1
<i>Cladosporium herbarum</i>	1	1	1	1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	1	1	ND	<1

Sample ID	21205001-7 P33		21205001-7 P34		21205001-7 P35	
Air Volume [m ³]	1.438		1.474		1.463	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	28	19	27	18	ND	<1
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	ND	<1	ND	<1
<i>Cladosporium herbarum</i>	ND	<1	2	1	ND	<1
<i>Cladosporium sphaerospermum</i>	1	1	ND	<1	1	1

Sample ID	21205001-7 P36	
Air Volume [m ³]	1.418	
Fungal ID	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	18	13
<i>Cladosporium cladosporioides</i> (Type 2)	1	1
<i>Cladosporium herbarum</i>	1	1
<i>Cladosporium sphaerospermum</i>	1	1

* SE = Spore Equivalents, ND = Not Detected

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PCR - Custom Panel

Prepared Exclusively For:

Hygiene Technologies International, Inc.:
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Project Name: 21205001-7

Project ID Number: 928951

June 7, 2012

Results:

Sample ID	21205001-7 P01 Out		21205001-7 P02		21205001-7 P04	
	Air Volume [m ³]	1.431	SE*	SE/m3	SE*	SE/m3
Fungal ID						
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	1	1	ND	<1	ND	<1
<i>Aspergillus flavus</i> ^a	ND	<1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	62	43	3	2	ND	<1
<i>Aspergillus niger</i> ^c	3	2	ND	<1	ND	<1
<i>Aspergillus ochraceus</i> ^d	ND	<1	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<8	ND	<7	ND	<11
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<1	ND	<1	ND	<2
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	980	680	3	2	13	10
<i>Cladosporium cladosporioides</i> (Type 2)	12	9	1	1	1	1
<i>Cladosporium herbarum</i>	44	31	2	2	4	3
<i>Cladosporium sphaerospermum</i>	ND	<1	1	1	1	1
<i>Eurotium (Asp.) amstelodami</i> ^e	76	53	ND	<1	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	1	1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> ^f	ND	<2	ND	<2	ND	<3
<i>Penicillium brevicompactum</i>	130	94	ND	<2	ND	<3
<i>Penicillium chrysogenum</i> (Type 2) ^g	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<2	ND	<1	ND	<2
<i>Penicillium variabile</i>	ND	<5	ND	<4	ND	<7
<i>Scopulariopsis brevicaulis</i> ^h	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> ⁱ	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. koningii*

Results:

Sample ID	21205001-7 P09		21205001-7 P11		21205001-7 P37 Blank	
Air Volume [m ³]	1.431		1.422		NA	
Fungal ID	SE*	SE/m ³	SE*	SE/m ³	SE*	SE/sample
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus flavus</i> ^a	ND	<1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	3	2	2	1	ND	<1
<i>Aspergillus niger</i> ^c	ND	<1	2	1	ND	<1
<i>Aspergillus ochraceus</i> ^d	ND	<1	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<9	ND	<9	ND	<14
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<1	ND	<1	ND	<2
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	54	38	36	25	ND	<1
<i>Cladosporium cladosporioides</i> (Type 2)	ND	<1	1	1	1	1
<i>Cladosporium herbarum</i>	3	2	2	1	ND	<1
<i>Cladosporium sphaerospermum</i>	1	1	ND	<1	ND	<1
<i>Eurotium (Asp.) amstelodami</i> ^e	ND	<1	ND	<1	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> ^f	ND	<2	ND	<2	ND	<4
<i>Penicillium brevicompactum</i>	ND	<2	ND	<2	ND	<3
<i>Penicillium chrysogenum</i> (Type 2) ^g	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<2	ND	<2	ND	<2
<i>Penicillium variabile</i>	ND	<5	ND	<5	ND	<8
<i>Scopulariopsis brevicaulis</i> ^h	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> ⁱ	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. koningii*

Results:

Sample ID	21205001-7 P13 Out		21205001-7 P14		21205001-7 P16	
Air Volume [m ³]	1.422		1.457		1.472	
Fungal ID	SE*	SE/m ³	SE*	SE/m ³	SE*	SE/m ³
<i>Acremonium strictum</i>	1	1	ND	<1	ND	<1
<i>Alternaria alternata</i>	2	1	ND	<1	1	1
<i>Aspergillus flavus</i> ^a	1	1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	10	7	ND	<1	ND	<1
<i>Aspergillus niger</i> ^c	1	1	ND	<1	ND	<1
<i>Aspergillus ochraceus</i> ^d	1	1	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<9	ND	<8	ND	<9
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	4	3	ND	<1	ND	<1
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	880	620	14	9	35	24
<i>Cladosporium cladosporioides</i> (Type 2)	4	3	ND	<1	ND	<1
<i>Cladosporium herbarum</i>	31	22	1	1	1	1
<i>Cladosporium sphaerospermum</i>	1	1	ND	<1	ND	<1
<i>Eurotium (Asp.) amstelodami</i> ^e	78	55	ND	<1	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> ^f	ND	<2	ND	<2	ND	<3
<i>Penicillium brevicompactum</i>	35	25	3	2	ND	<2
<i>Penicillium chrysogenum</i> (Type 2) ^g	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<2	ND	<1	ND	<2
<i>Penicillium variabile</i>	ND	<5	ND	<4	ND	<6
<i>Scopulariopsis brevicaulis</i> ^h	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	1	1	ND	<1	ND	<1
<i>Trichoderma viride</i> ⁱ	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. koningii*

Results:

Sample ID	21205001-7 P18		21205001-7 P23		21205001-7 P25 Out	
Air Volume [m ³]	1.439		1.476		1.450	
Fungal ID	SE*	SE/m ³	SE*	SE/m ³	SE*	SE/m ³
<i>Acremonium strictum</i>	ND	<1	ND	<1	1	1
<i>Alternaria alternata</i>	ND	<1	ND	<1	1	1
<i>Aspergillus flavus</i> ^a	ND	<1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	1	1	2	2	630	440
<i>Aspergillus niger</i> ^c	1	1	ND	<1	3	2
<i>Aspergillus ochraceus</i> ^d	ND	<1	ND	<1	1	1
<i>Aspergillus sydowii</i>	ND	<7	ND	<7	ND	<7
<i>Aspergillus ustus</i>	ND	<1	ND	<1	1	1
<i>Aspergillus versicolor</i>	ND	<1	ND	<1	1	1
<i>Chaetomium globosum</i>	ND	<1	ND	<1	1	1
<i>Cladosporium cladosporioides</i> (Type 1)	38	26	5	3	670	460
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	1	1	2	1
<i>Cladosporium herbarum</i>	4	3	1	1	23	16
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	1	1
<i>Eurotium (Asp.) amstelodami</i> ^e	ND	<1	31	21	55	38
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> ^f	ND	<2	ND	<2	ND	<2
<i>Penicillium brevicompactum</i>	ND	<2	ND	<2	13	9
<i>Penicillium chrysogenum</i> (Type 2) ^g	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1	ND	<1	4	3
<i>Penicillium variabile</i>	ND	<4	ND	<4	ND	<4
<i>Scopulariopsis brevicaulis</i> ^h	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	1	1
<i>Trichoderma viride</i> ⁱ	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. koningii*

Results:

Sample ID	21205001-7 P29		21205001-7 P30		21205001-7 P31	
Air Volume [m ³]	1.420		1.422		1.455	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	3	2	1	1	ND	<1
<i>Aspergillus flavus</i> ^a	ND	<1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	ND	<1	ND	<1	ND	<1
<i>Aspergillus niger</i> ^c	3	2	ND	<1	1	1
<i>Aspergillus ochraceus</i> ^d	ND	<1	ND	<1	1	1
<i>Aspergillus sydowii</i>	ND	<7	ND	<8	ND	<7
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<1	ND	<1	ND	<1
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	27	19	34	24	26	18
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	ND	<1	1	1
<i>Cladosporium herbarum</i>	1	1	1	1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1
<i>Eurotium (Asp.) amstelodami</i> ^e	ND	<1	ND	<1	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> ^f	ND	<2	ND	<2	ND	<2
<i>Penicillium brevicompactum</i>	ND	<2	ND	<2	12	8
<i>Penicillium chrysogenum</i> (Type 2) ^g	ND	<1	ND	<1	ND	<1
<i>Penicillium puruogenum</i>	ND	<1	ND	<2	ND	<1
<i>Penicillium variabile</i>	ND	<4	ND	<5	ND	<4
<i>Scopulariopsis brevicaulis</i> ^h	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> ⁱ	ND	<1	8	6	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. koningii*



Request For Analysis

Project Number/Purchase Order: 20021205001-7 Date Submitted: 5/25/12

Project Contact: H.Samadhi/K.Hsi Turnaround Required: Normal

Lab Destination: EM LAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
1 21205001-7 p001	1431 L	3.7mm SPZ 0.4mm PCF	PCR Custom Panel (C打得sporium)
2 21205001-7 p02	1242 L		
3 21205001-7 p03	1431 L		
4 21205001-7 p04	1400 L		
5 21205001-7 p05	1332 L		
6 21205001-7 p06	1431 L		
7 21205001-7 p07	1395 L		
8 21205001-7 p08	1431 L		
9 21205001-7 p09	1431 L		
10 21205001-7 p10	1422 L		
11 21205001-7 p11	1422 L		
12 21205001-7 p12	1422 L	✓	✓
13 21205001-7 p13 BLANK	1414 L	✓	✓

Special Instructions: Please also analyze sample no's p01 out, p02, p04, p09, p11, & p13 + BLANK further PCR 23 analysis

1. Sampled by: H.Samadhi on 5/25/12 @ 5:20 Received by: _____
2. Relinquished by: H.Samadhi on 5/25/12 @ 16:30 Received by: _____
3. Relinquished by: HDX 10/10 5/26/12 Received by: D.Kerry
Please include signature, date, and time

Lab Use Only: _____



HYGIENE TECH

Hygiene Technologies International, Inc.



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Torrance, California

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(310) 370-B370

(310) 370-2474 FAX

www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 2120501-7 Date Submitted: 5/25/12
Project Contact: L-Sandhu/khs Turnaround Required: Normal
Lab Destination: F219 LAB Lab Contact: Sample Receipt

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
2120501-7 p13	1422 L	37mm3TC 0.4mlmpcf	PCR custom panel (Cladospiron)
2120501-7 p14	1457 L		
2120501-7 p15	1446 L		
2120501-7 p16	1472 L		
2120501-7 p17	1446 L		
2120501-7 p18	1439 L		
2120501-7 p19	1402 L		
2120501-7 p20	1458 L		
2120501-7 p21	1404 L		
2120501-7 p22	1422 L		
2120501-7 p23	1476 L		
2120501-7 p24	1521 L		N

Special Instructions: Please also analyze sample nos p13out, p14, p16, p18, & p23 for PCR 23 analysis

1. Sampled by: Hannah Tan 5/25/12 Received by: Q9:38
2. Relinquished by: Hannah Tan 5/25/12 Received by: 12:30
3. Relinquished by: DKay Received by: 10:10 5/30/12 Please include signature, date, and time

Lab Use Only:



HYGIENE TECH

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(310) 370-9370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 21205001-7 Date Submitted: 8/25/12

Project Contact: L-Sandhee (LHS) Turnaround Required: Normal

Lab Destination: FMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21205001-7 P2501	1450 L	39mm 3PCF 0.4µm PPF	PCR custom panel <i>Clostridium</i>
21205001-7 P26	1610 L		
21205001-7 P27	1473 L		
21205001-7 P28	1406 L		
21205001-7 P29	1420 L		
21205001-7 P30	1422 L		
21205001-7 P31	1455 L		
21205001-7 P32	1404 L		
21205001-7 P33	1438 L		
21205001-7 P34	1474 L		
21205001-7 P35	1463 L		
21205001-7 P36	1418 L	X	X (L5)
21205001-7 P37		X	X (L5)

Special Instructions: Please allow analysis Sample No's P2501-7
(L5) ~~P2501-7~~, P29, P30, P31, P32, P33, P34, P35, P36, P37 PCR 23 Analysis

1. Sampled by: Hannah S. Edwards Received by: 13:42
2. Relinquished by: Hannah S. Edwards Received by: 18:30
3. Relinquished by: LWS Received by: 10/10 5:30/12
Please include signature, date, and time

Lab Use Only:	
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